

INSTRUMENTATION AND CONTROL

TUTORIAL 1 – BASIC ENGINEERING SCIENCE

This tutorial provides minimal engineering science necessary to complete the rest of the tutorials. Greater depth of the individual topics can be found on the web site. It is useful to anyone studying measurement systems and instrumentation but it is provided mainly in support of the EC module D227 – Control System Engineering. This tutorial is very basic.

On completion of this tutorial, you should be able to explain and use the following basic relationships used in mechanical and electrical engineering science.

- Basic units.
- Displacement, velocity and acceleration.
- Newton's Second Law of Motion.
- Springs.
- Pressure and flow.
- Resistance, current, capacitance and inductance.
- Stress and strain.
- Resistivity and temperature coefficient of resistance.

Instrumentation And Control Tutorial 1 Basic Engineering

SA Adler



Instrumentation And Control Tutorial 1 Basic Engineering:

Instrumentation & Control Systems ,1995 *Chilton's I & C S* ,1989-07 *Process/industrial Instruments and Controls Handbook* Douglas M. Considine,1993 Introductory review Control system fundamentals Controllers Process variables field instrumentation Geometric and motion sensors Physicochemical and analytical systems Control communications Operator interface Valves servos motors and robots *InTech* ,1999-07 **ESD Technology** ,1991 Calendar University of Adelaide,1969 **Annual Catalogue** United States Air Force Academy,1985 **InfoWorld** ,1981-10-12 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **United States Air Force Academy** United States Air Force Academy,1985 *Journal of Protective Coatings & Linings* ,1992-12 Instrumentation Technology ,1977 *The Edinburgh University Calendar* University of Edinburgh,1921 **The Publishers' Trade List Annual** ,1982 Personal Engineering & Instrumentation News ,1990-07 **New Serial Titles** ,1985 Chemical Engineering Progress ,1982 R.R. Bowker's Software for Schools ,1987 **The Standard Periodical Directory** ,1978 This directory may be used to identify specialized trade journals as possible sources of business information or advertising **NASA SP.** ,1972 *College Credit Recommendations* ,2002

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